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(54) Title: OPEN-CHAIN ALKOXYAMINES AND THEIR CORRESPONDING NITROXIDES FOR CONTROLLED LOW TEMPERATURE RADICAL POLYMERIZATION

(57) Abstract: The present invention relates to open chain alkoxyamine compounds, a polymerizable composition comprising a) at least one ethylenically unsaturated monomer and b) at least one open chain alkoxyamine compound. Further aspects of the present invention are a process for polymerizing ethylenically unsaturated monomers, and the use of open chain alkoxyamine compounds for controlled polymerization. The intermediate N-oxyl derivatives, a composition of the N-oxyl derivatives with ethylenically unsaturated monomers and a free radical initiator X, as well as a process and their use for polymerization are also subjects of the present invention.